

WHAT IS CLAIMED:

1. A method of fabricating a flexible hose (9) for a vacuum cleaner by winding at a predetermined angle one long extrusion molding band (7) provided with a semicircular portion (5) and an electric wire embedding portion (3) connected to each other through one connector (6) and bonding at the same time, the method comprising the steps of:

5 (a) extruding a primary extrusion molding band (13) having a larger size than a size of a finished state while embedding an electric wire (1) in the primary extrusion molding band (13) at a first extruder (12);

10 (b) molding a multi-extrusion molding band (10) in the size of the finished state at a sizing mold (14); and

15 (c) winding the multi-extrusion molding band (10) at a predetermined angle at a bonder and bonding a bonding portion (2) of the electric embedding portion (3) with a bonding end (4) of the semicircular portions (5) positioned on both sides of the multi-extrusion molding band (10) by using adhesive (8).

20 2. The method of claim 1, wherein the primary extrusion molding band (13) is extruded such that the plurality of semicircular portions (5) and the plurality of electric wires (3) are connected to each other through the connectors (6) to form integrated cross-sections and an upper portion of the semicircular portion (5) is thinner than the connectors (6).

25 3. A flexible hose for a vacuum cleaner, comprising two or three long extrusion molding bands (7) having cross-sections each including a rectangular electric embedding portion (3) having an embedded electric wire (1) and a bonding portion (2), a semicircular portion (5) having a bonding end at an end thereof, and a connector connecting the electric embedding portion (3) and a semicircular portion (5), wherein bonding ends (4) and the bonding portions (2) of the two or three long extrusion molding bands (7) are bonded through adhesive, the extrusion molding bands (7) are wound cylindrically at a predetermined angle, and the bonding end (4) of the extrusion connected at a bonding portion (2) by adhesive,

wherein one multi-extrusion molding band (10), which is integrally molded such that two or more semicircular portions (5) and two or more electric wire embedding portions (3) are connected to each other through the connectors (6) as viewed in a cross-section, is wound cylindrically at a predetermined angle and the bonding end (4) at one side and a bonding portion (2) at the other side are bonded.

4. The flexible hose of claim 3, wherein an expansion hole (11) is formed at a portion where the semicircular portion (5) and an electric wire embedding portion (3) are connected to each other.

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5. A flexible hose for a vacuum cleaner, comprising:
an integrally molded extrusion having three-dimensional features extending uniformly longitudinally down the extrusion, the three-dimensional features being repeated at least once in the extrusion in a direction perpendicular to the longitudinal direction,
the extrusion being wound cylindrically at a predetermined angle to provide a bond between a bonding end on one side of the extrusion and a bonding portion on the other side of the extrusion to form the flexible hose.

6. The flexible hose of claim 5, wherein the three-dimensional features
20 include a wire embedding portion.

7. The flexible hose of claim 5, wherein the three-dimensional features
include semicircular shapes.

25 8. The flexible hose of claim 5, wherein an expansion hole is formed longitudinally down the extrusion between at least two of the three-dimensional features.